Amendments to the claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of claims:

Claims 1-29 (cancelled)

- 30. (Currently amended) A peptide having bifidogenic properties and, wherein the peptide is
 - an amino acid sequence selected from the group consisting of:
 - a) R1+EVAARARVVW-R2 (SEQ ID NO: 8),
 - b) R₁-ARRARVVWAAVG-R₂ (SEQ ID NO: 22),
 - c) R₁-ARRARVVWCAVG-R₂ (SEQ ID NO: 14), and R₃-CIAL-R₄ (SEQ ID NO: 15)
 - d) R1-ARRARVVWCAVGE-R2 (SEQ ID NO: 16), R3-CIAL-R (SEQ ID NO: 15)

wherein

- R₁, R₂ independently represent H or a peptide containing up to 100 amino acids; and R₂, R₄ independently represent OH, NH₂, or a peptide containing up to 100 amino acids;
- ___ d) amidated; acctylated, sulfated, phosphorylated, glycosylated, and oxidized derivatives and fragments, thereof, having bifidogenic properties; and the amino acid sequence N-

modified by amidation, acetylation, sulfation, phosphorylation, glycosylation, or oxidation; <u>or</u>

- c) peptides obtainable by the combination of the peptides, fragments, and derivatives a fusion protein, thereof, obtained by chemical bonding.
- 31. (Previously presented) A peptide according to claim 30 selected from the group consisting of SEQ ID NO: 8 and SEQ ID NO: 22.
- 32. (Previously presented) A medicament containing at least one peptide according to claim 30.
- 33. (Previously presented) A medicament containing at least one peptide according to claim 31.

Claims 34 and 35 (cancelled).

- 36. (Previously presented) A peptide having bifidogenic properties and selected from the group consisting of SEQ ID NO: 14 and SEQ ID NO: 16.
- 37. (Previously presented) A medicament containing at least one peptide according to claim 36.

Claims 38 and 39 (cancelled).

40. (Currently amended) A peptide having bifidogenic properties and, wherein the peptide is

a) amino acid sequence

R1-EVAARARVVW-R2 (SEQ ID NO: 8), R1-ARRARVVWCAVG-R2 (SEQ ID NO: 14), R3-CIAL-R4 (SEQ ID NO: 15) R1-ARRARVVWCAVGE-R2 (SEQ ID NO: 16), R_3 -CIAL- R_4 (SEQ ID NO: 15) R, -GRRRSVQWCAVSQPEATKCFQWQRNMRKVRGPPVSCIKRDSPIQCIQA-R2 (SEQ ID NO: 19), R₁-ARRARVVWAAVG-R₂ (SEQ ID NO: 22),

wherein

R₁, R₂ independently represents NH₂, an amino acid, or a peptide containing up to 100 amino acids, and

R₂, R₄ independently represents COOH, CONH₂, an amino acid, or a peptide containing up to 100 amino acids[;], or

b) amino acid sequence

R,-YQRRPAIAINNPYVPRTYYANPAVVRPHAQIPQRQYLPNSHPPTVVRRPNLHPSF-R2 (SEQ ID NO: 17),

wherein

R₁, R₂ independently represents H or a peptide containing up to 100 amino acids excluding amino acid sequence 1-62 of human k-casein, and

R₂, R₄ independently represents OH, NH₂, or a peptide containing up to 100 amino acids excluding amino acid sequence 1-62 of human x-casein; or

- cb) the peptide amino acid sequence N-modified by amidation, acetylation, sulfation, phosphorylation, glycosylation, or oxidation having bifidogenic properties.
- 41. (Currently amended) A peptide having bifidogenic properties and, wherein the peptide is
 - _ amino acid sequence
 - a) (SEQ ID NO: 8),
 - b) (SEQ ID NO: 14),
 - c) (SEQ ID NO: 22), or
 - d) R₁-ARRARVVWCAVG-R₂ (SEQ ID NO: 14) <u>and</u> R₃-CIAL-R₄ (SEQ ID NO: 15)

wherein

- R_1 , R_3 independently represent H or a peptide containing up to 100 amino acids; and R_2 , R_4 independently represent OH, NH₂, or a peptide containing up to 100 amino acids; or
- e) or the amino acid sequence N-modified by amidation, acetylation, sulfation, phosphorylation, glycosylation, or oxidation amidated, acetylated, sulfated, phosphorylated, glycosylated, oxidized derivatives or fragments, thereof, having bifidogenic properties.

Claims 42 and 43 (cancelled).

- 44. (Previously presented) A composition for human administration comprising the peptide of claim 40 in combination with a physiologically acceptable excipient in a galenic formulation.
- 45. (Previously presented) A composition for human administration comprising the peptide of claim 41 in combination with a physiologically acceptable excipient in a galenic formulation.